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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/869,119	09/14/2001	Peter Ekberg	0104-347P	1221
2292 75	90 03/11/2004		EXAM	INER
BIRCH STEWART KOLASCH & BIRCH			MOHAMEDULLA, SALEHA R	
PO BOX 747 FALLS CHURCH, VA 22040-0747		ART UNIT	PAPER NUMBER	

DATE MAILED: 03/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
<i>e</i>	09/869,119	EKBERG, PETER			
Office Action Summary	Examiner	Art Unit			
	Saleha R. Mohamedulla	1756			
The MAILING DATE of this communication	appears on the cover sheet with	the correspondence address			
Period for Reply	DLV IC CET TO EVOIDE AMOU	NTH(S) FROM			
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a repl reply within the statutory minimum of thirty (3 riod will apply and will expire SIX (6) MONTH atule, cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. IDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 2	<u>9 December 2003</u> .				
2a) This action is FINAL . 2b) ⊠ 1	This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-22</u> is/are rejected.					
7) Claim(s) is/are objected to.	der election requirement	•			
8) Claim(s) are subject to restriction ar	id/or election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
11)[] The oath or declaration is objected to by the	e Examiner. Note the attached	Since Addition to the tree.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 					
2. Certified copies of the priority documents.3. Copies of the certified copies of the					
application from the International Bu					
* See the attached detailed Office action for a list of the certified copies not received.					
(
Attachment(s)					
1) Notice of References Cited (PTO-892)	Dener No(a)	mmary (PTO-413) /Mail Date			
2) Notice of Draitsperson's Patent Drawing Neview (170-340) 13) Notice of Informal Patent Application (PTO-152)					
Paper No(s)/Mail Date <u>092501; 062501</u> .	6) Other:	•			

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DETAILED ACTION

Claims 1-22 are pending.

Election/Restriction

1. The restriction requirement dated September 26, 2003 is withdrawn in view of Applicant's remarks. Claims 1-22 are examined.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-22 are rejected under 35 U.S.C. 102(b) as being anticipated by US# 5,815,685 to Kamon.

Kamon teaches a light proximity correction system with a design data input unit for inputting data of a circuit pattern, a data compression unit for compressing the design data input via the design data input unit, an optical image formation unit for forming an optical projection image used to transfer a pattern onto a wafer according to the design data input via the design data input unit, a prediction unit for predicting the size of the pattern which will be transferred onto the wafer, the prediction being performed on the basis of the projection image formed by the optical image formation unit, a comparison unit for calculating the difference between the size of the transferred pattern predicted by the prediction unit and the size of the pattern designated by the design data input via the design data input unit, a correction unit for correcting

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the design data compressed by the data compression unit by an amount equal to the difference determined by the comparison unit, a data expansion unit for expanding the data corrected by the correction unit, and a corrected data output unit for outputting the data expanded by the data expansion unit (col.1, line 60 - col. 2, line 15). Kamon also teaches a method of correcting light proximity effect which occurs during a process of transferring a pattern onto a wafer, the correction of the light proximity effect being performed on the basis of design data of a circuit pattern, thereby generating corrected data, performing electron beam exposure according to the corrected data thereby producing a mask pattern, performing light exposure through the mask pattern thereby transferring the mask pattern onto a wafer and processing the wafer (col. 2, lines 27-38). Kamon also teaches compressing design data of a circuit pattern, forming an optical projection image used to transfer a pattern onto a wafer according to design data, predicting the size of the pattern which will be transferred onto the wafer, the prediction being performed on the basis of the projection image formed in the previous step, correcting the design data by an amount equal to the difference between the predicted size of the transferred pattern and the size of the pattern designated by the design data, expanding the corrected data and outputting the expanded data (col. 2, lines 15-25). The design data for the circuit pattern is the mask (col. 12, lines 25-50). Kamon also teaches exposure using UV light (col. 1, lines 20-25). Because Kamon teaches finding the deviation difference in the patterns, Kamon teaches finding the statistical mean.

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Conclusion

3. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Saleha Mohamedulla whose telephone number is (571) 272-1387. The Examiner can normally be reached Monday-Friday, from 8:00 AM to 4:30 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Mark Huff, can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Saleha R. Mohamedulla

Patent Examiner

Technology Center 1700

March 3, 2004